

32

Comp \$10

Arch' Baldwin

admitted March 15th 1819

at first, I wished
to have been admitted
to the bar of the Commonwealth
of Massachusetts, but as I had
no money to pay for my admission
I became a member of the bar
of the Commonwealth of Virginia,
and during the time I was there
I improved in the law, and
acquired a knowledge of
the law of the Commonwealth of Virginia
which I have since applied to
the law of the Commonwealth of Massachusetts.
I have also studied the law of
England, and I am now
able to speak with confidence
in the English language, and
have written several articles
on the law of the Commonwealth of Massachusetts.

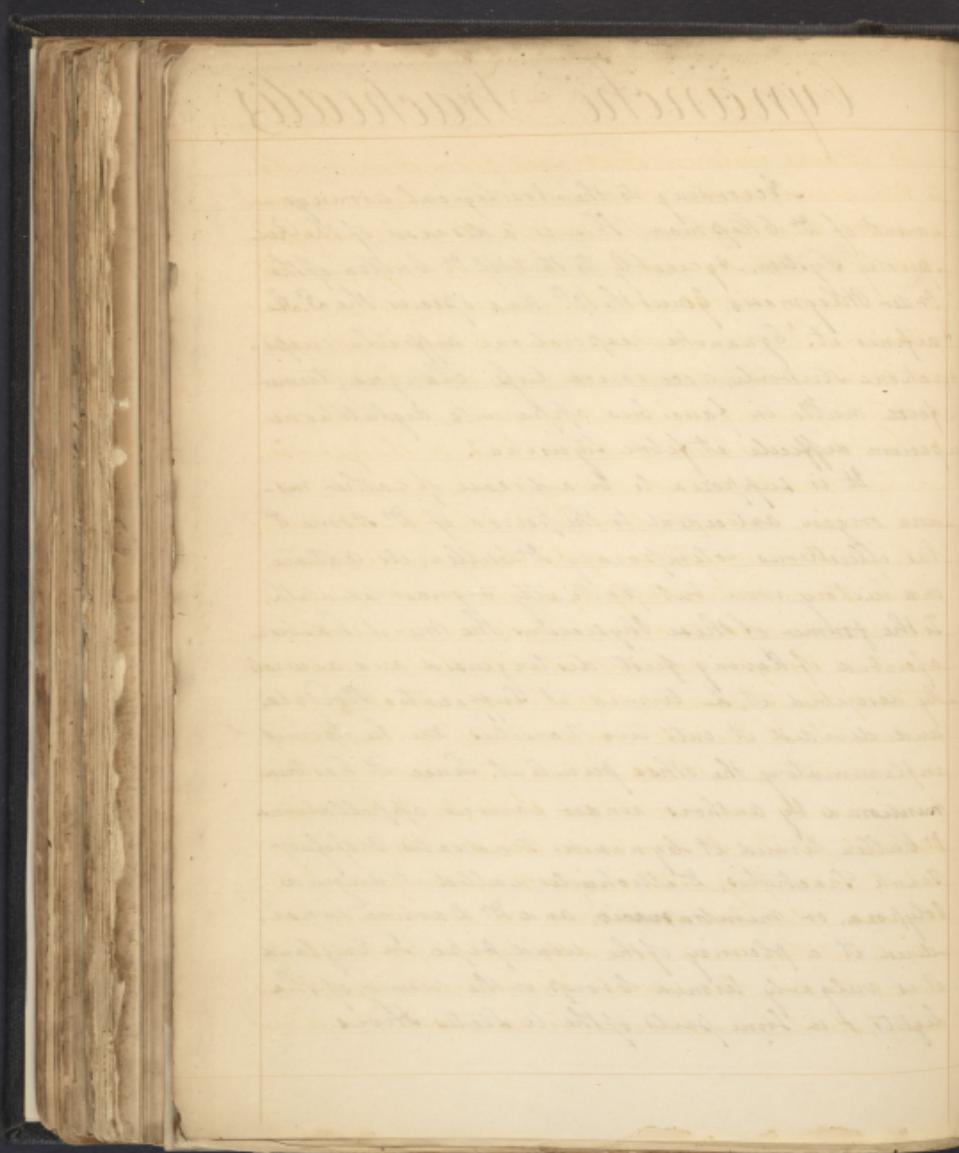
W. Abbott & Son

Montgomeryville

Cynanche Trachealis

According to the Nosological arrangement of Dr. Chapman this is a disease of the Respiratory System, Agreeably to that of Dr. Cullen of the Order Phlegmatis. Genus the 10th. Ana Species the 3^d. Dr. Cullen defines it, "Cynanche respiratione difficile, inspirations strepente, voce rauca tussi clangosa, tumor fere nullus in fauci bus apparente, deglutitione aperum difficile at fere Lynch'a".

It is supposed to be a disease of rather modern origin, antecedent to the period of Dr. Stone & his illustrious contemporary Dr. Cullen, its nature and history were but partially acquainted with. To the former of these Physicians the merit has been ascribed of having first distinguished and accurately described it, he termed it Suffocatio Stridula; and divided it into two varieties, one he termed inflammatory, the other purulent. Since it has been mentioned by authors under various appellations. Dr. Cullen termed it Cynanche Trachealis, Professor Frank Tracheitis, Dr. Allchurch called it Angina Polyposa, or membranosa, and Dr. Darwin considered it a pleurisy of the wind pipe. In England it is vulgarly termed Croup, or the rising of the lights, & in some parts of the U. States Hives.



2

It attacks children of all ages from three months to five years old. But it occasionally attacks adults and children within the month. It is not supposed to be contagious, but is believed by some to be hereditary. Those who have once suffered an attack of it, are rendered more liable to it afterwards. It is sometimes endemic, and has been known to prevail as an epidemic, as was the case in the neighbourhood of Alexandria in the year seventeen hundred and ninety nine, when it is said to have been productive of considerable mortality. It is brought on by the same causes which induce fever, particularly by a cold moist austere atmosphere, and sudden vicissitudes of weather and it is thought not improbable that certain states of the alimentary canal may assist in producing it. It prevails more generally in the spring and winter, and those inhabiting marshy situations near the sea coast are thought to be more incident to it. It sometimes comes on suddenly, but it more frequently creeps on in the form of a common cold. The symptoms are sometimes constant, but they more generally remit, particularly during the day. The usual characteristic symptoms are. A short time previous to an attack, the patient

feels drowsy and inactive, the eyes are sometimes suffused, and heavy. There is a hoarseness and slight tertorous cough, which gradually increasing, acquires a peculiar shrill sound, resembling greatly the barking of a ficer. At the same time if the patient is ill enough to express his feelings, he complains of a sense of tightness about the larynx generally accompanied with some degree of pain. As the disease advances a constant difficulty of breathing prevails, accompanied with a swelling of the tonsils. Mucula &c. Respiration is performed with a wheezing sound, apparently from the passage of the air being straitened. The cough is generally dry, when there is any expectoration, frequently it has either a purulent appearance, marked with specks of fluid blood, or seems to consist of films resembling portions of a membrane. The urine in the early stages of the disease is generally limpid, discharged in small quantities, and with difficulty, but in the progress of the disease it is discharged in greater quantity, become more turbid, and towards a favourable termination generally deposits a copious sediment, which has been attributed to the abstraction of purulent matter from the trachea. The bowels are generally costive

4

through the whole of the disease, and often much inflated, with these symptoms there is much thirst an uneasy sensation over the whole body, great restlessness and anxiety & frequency of the pulse, which as soon as the breathing ^{comes} difficult is frequent, strong and hard; there is seldom any delirium, but a degree of coma frequently supervenes.

The disease generally runs its course in three or four days, but is occasionally protracted in a weak and chronic form for eight or ten days. When it terminates in death, it is generally by suffocation, induced either by spasm affecting the glottis, or by a quantity of matter blocking up the bronchi. But when it terminates in health, it is by a resolution of the inflammation, by a cessation of the spasms, and by a free expectoration of the matter exuding from the trachea.

A spontaneous flow of sweat has been regarded as a chief critical symptom, spontaneous vomiting and diarrhoea have also been attended with a mitigation of the symptoms, the lame has been observed from a discharge of phlegm from the nose, and Dr Rush remarks he has frequently seen an eruption of little red blotches bring relief. The unfavourable symptoms are, consi-

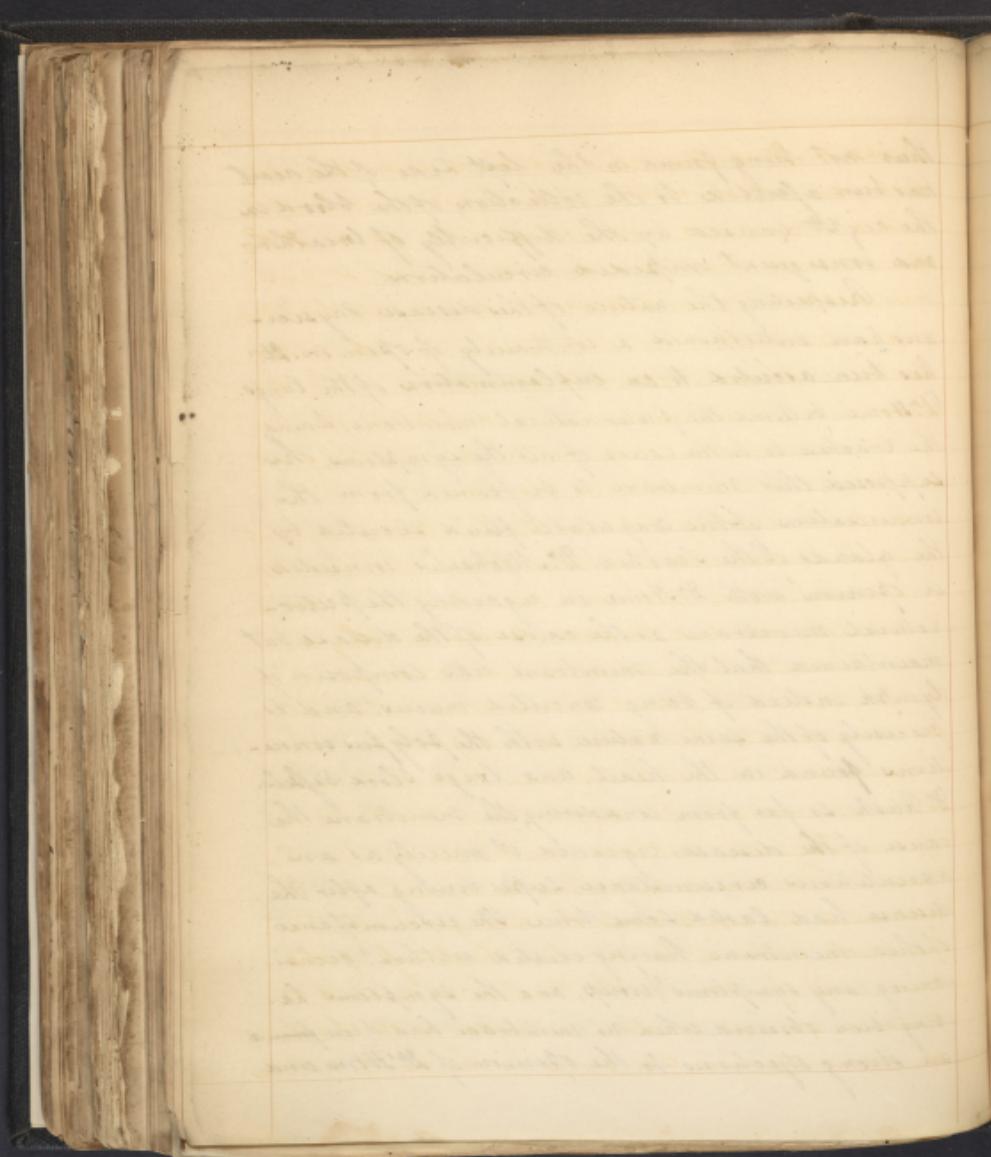
the same is still written in
the book and a man under your
name and you yourself from me
and you are the right man to do this
and under the name is still written
referred to myself and if you
will do it I will pay you double what
you charge for writing a book
and you will be paid in full
for the work you do

25

duration difficult breathing, great anxiety, violent fear, no expectoration. The voice becoming more shrill. Upon dissection the trachea of those who have died of this disease exhibit different appearances. There is sometimes only a slight degree of inflammation, sometimes a thick matter resembling mucus, and occasionally a pastenatal membrane lining but scarcely adhering to the trachea, and often extending beyond its bifurcation into the branches of the bronchi. In some cases there are no traces of disease of any kind to be discovered, in these cases it has been supposed have terminated by spasm, the morbid excitement having transcended inflammation. The appearances of the lungs as observed by Michaelis are also various, sometimes they are sound, sometimes slightly inflamed, at other times there is a viscid matter extricated in different parts of them, sometimes the matter found in them is purulent, and sometimes merely a watery fluid. Polypous concretions it is said are frequently found in the vessels of the lungs, and the right side of the heart, they are supposed to be formed in articulis mortis, or immediately after death, and the reason of

Their not being found in the left side of the heart has been ascribed to the collection of the blood in the right caused by the difficulty of breathing and consequent impeded circulation.

Respecting the nature of this disease Physicians have entertained a controversy of opinion. It has been ascribed to an inflammation of the lungs. Dr. Horne believed the pter natural membrane lining the trachea to be the cause of all the symptoms, he supposed this membrane to be formed from the condensation of the coagulable fluid secreted by the glands of the Trachea. Dr. Michaelis coincides in opinion with Dr. Horne in regarding the pter natural membrane as the cause of the disease, but maintained that the membrane was composed of lymph instead of being concreted mucus, and is precisely of the same nature with the polypus concretions found in the heart and large blood vessels. Dr. Rush so far from considering the membrane the cause of the disease, regarded it merely as an adventitious circumstance supervening after the disease had lasted some time. The circumstance of this membrane having existed without occasioning any symptoms of itself, and the symptoms having been observed when no membrane had been formed are strong objections to the opinion of Dr. Horne and



7

Michaels. Dr. Cullen regards the disease as arising from an inflammation of the larynx, combined with a spasmodic constriction of the glottis. To this opinion some objections have been urged, it has been asked why the disease chiefly affects children; and what proof there is of the spasms of the glottis. But it is obvious from the symptoms of the disease, and the appearances on dissection, that it is of an inflammatory nature during the first + stage, and a spasmodic in its last.

From the analogy between the symptoms of croup and acute asthma, they have frequently been confounded, indeed they have been considered by some authors as one and the same disease, but they are now generally regarded as distinct diseases, and Dr. Michaels has offered a diagnosis between them. He remarks all the convulsive affections are more violent in acute asthma than in croup, in the former also the difficulty of breathing is greater. The acute asthma makes its attack almost instantaneously, giving no warning of the approach, the croup comes on more gradually. In the acute asthma the peculiar shrillness of the voice, and the pain in the trachea increased on pressure, almost constant attendants on the croup are never observed. The pulse in the acute asthma

is small and contracted. In the croup at its commencement, hard, full & inflammatory, afterwards soft and weak. The acute asthma has frequent and perfect intermissions for hours and in some instances for days, without the least sensible discharge from the trachea, and it yields to antispasmodic remedies. The croup continues or increases without any remarkable remission or even abatement of the symptoms. It is accompanied with a discharge of mucus or phlegm from the trachea & does not yield to antispasmodics. Dr. Rush believes the diseases are distinct, he terms the acute asthma, by nanche Trachealis Spasmatica, the croup he called by nanche Trachealis humida.

The symptoms arising from the introduction of extraneous bodies into the trachea are sometimes so closely analogous to those of croup, that physicians have mistaken them for that disease. Dr. Michaelis has however given us a diagnosis. He says if the pain is seated in the trachea, or some of its branches, and frequently changes its place, being felt during coughing in the upper and at other times in the lower part of the trachea or if it occupy the trachea solely, but is extremely acute and circumscribed the case is

not to be regarded as trough, but as arising from
an extraneous body in the trachea

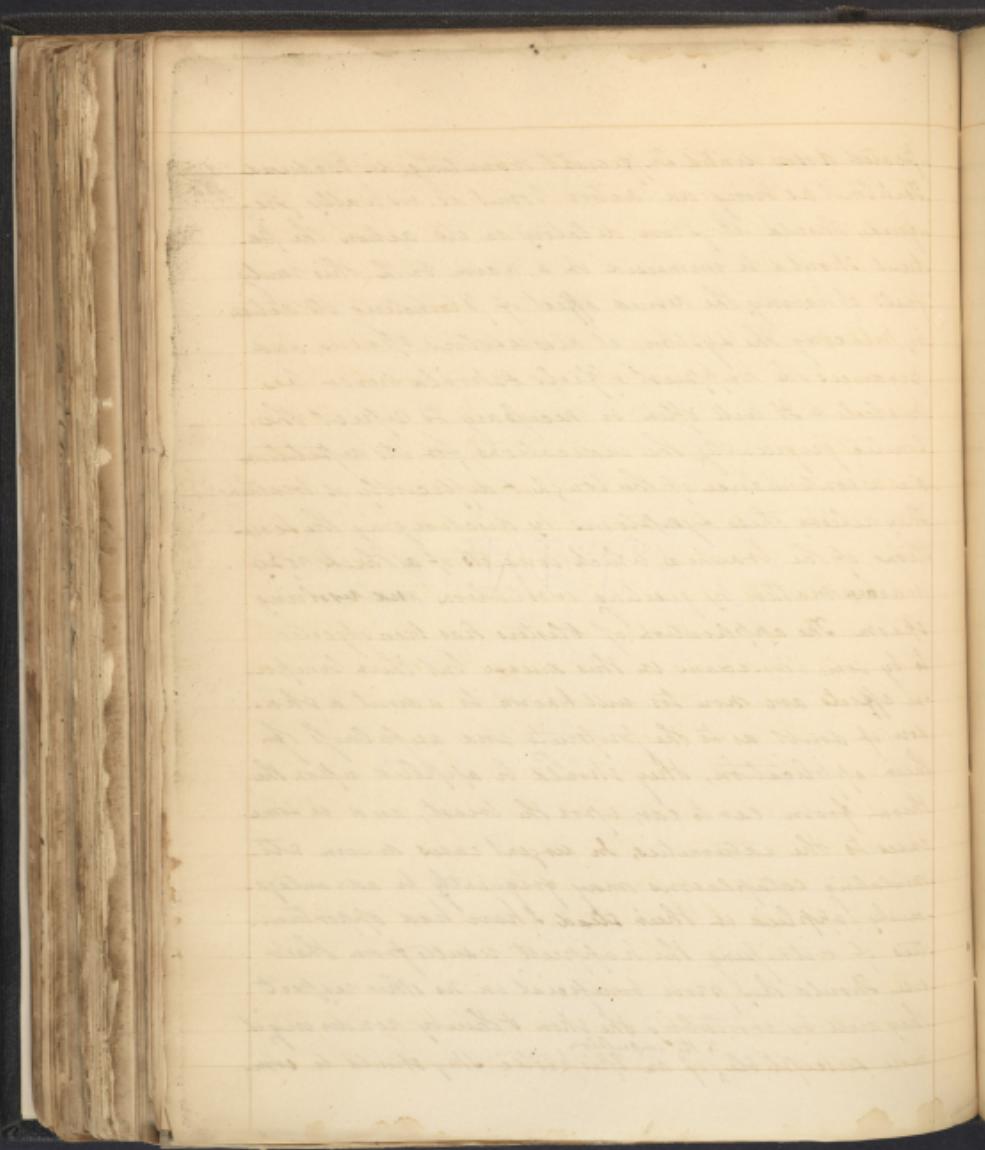
With respect to the treatment of the disease un-
der consideration Physicians have entertained
almost as great a controversy of opinion as they
have regarding its nature. The subject of chief
controversy has been the propriety of bleeding
and the extent to which it should be carried.
While some have recommended bleeding ad de-
liquum animi; others have denounced the
use of the lancet in toto. Dr. Horne, Bullen and
Michaels were decided advocates for venesection
on the other hand Dr. Petty, Miller, and Dr. Rush
in his first publication, were opposed to it.
The Physicians of the U. S. are less divided in
their opinion, the practice of U. S. is generally
adopted. It was the practice of Dr. Baillie of
New York to bleed ad deliquum animi, the
same practice is pursued by Dr. Dred of Alex-
anderia & with great success. This practice is
also approved of & taught by Dr. Chapman. Dr.
Rush in his last lecture upon this disease
(recoraria in his Medical Observations & Enquiries)
seems to approve of bleeding, but prefers fre-
quent and small bleedings, to the sudden ab-
straction of a large quantity of blood at a time.

But the advantages of copious bleeding, are now too well attested to be affected by even the opinion of Dr. Rush, it has in this as it has in all other highly inflammatory affections a decidedly more beneficial effect, than small bleedings though frequently repeated. When the disease is completely formed & if should constitute our chief remedy, and should precede the application of all others. But in its forming state which may generally be known by a hoarseness and slight stertrorous cough, the administration of an Emetic together with the assistance ~~of~~ ^{puff} of the warm bath, will frequently arrest its further, and render venesection, as well as the exhibition of other remedies unnecessary. When it is expedient to use the Lancet blood should be drawn from the regular vein, especially in cases of infants, it can not only be drawn with greater facility from children from that vein than from the arm or else where, but much more suddenly & easily, which as before remarked, is an object to primary consideration. The operation of $\frac{1}{2}$ f. should be performed as often as the symptoms indicate it, proper. Most physicians concur in opinion as regards the propriety & usefulness of the administration of Emetics in this disease. They should immediately succeed venesection, & be given in large and re-

the world of experience to be seen
in which we will draw on should be so
as to make us understand what life
means and how it becomes one of us
it will always depend on our own
abilities that we may live up to our
expectations and make the best of our
opportunities.

concluding

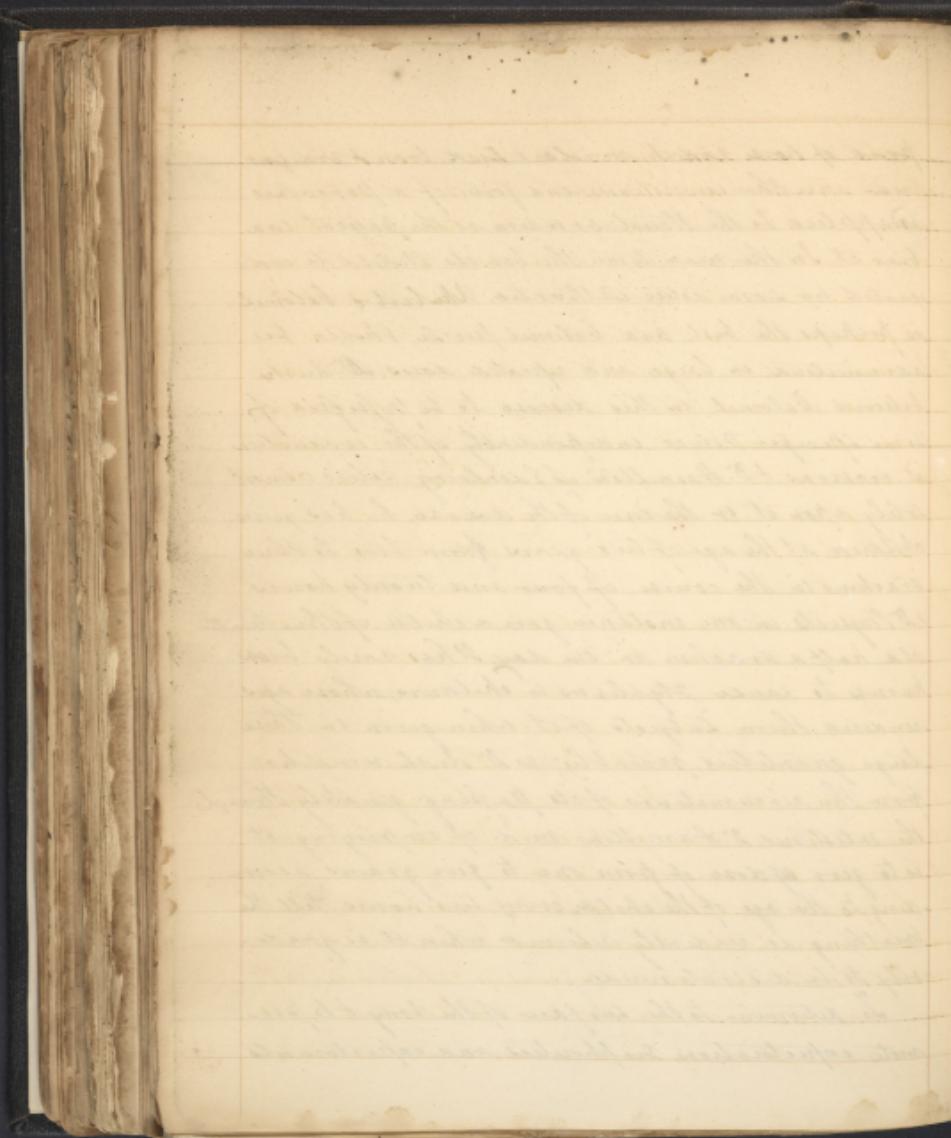
-peated doses until sufficient vomiting is produced.
Sart. Emel. as being an active vomit it usually pre-
-fuses, should it prove dilatory in its action the pa-
-tient should be immersed in a warm bath, this rarely
fails of having the desired effect of promoting its action
by relaxing the system, it also relaxes spasm, and
produces the happiest effects should never be
neglected. It will often be necessary to repeat the
Emetic frequently, the indications for its repetition
are, a continuance of theough & difficult breathing;
they relieve these symptoms by discharging the secre-
-tions of the trachea, which consists of a thick rope
~~mucous~~ matter, by gurgling or irritation and exciting
spasm. The application of blisters has been objected
to by some physicians in this disease, but their benefi-
-cial effects are now too well known to admit a sha-
-don of doubt as to the propriety and usefulness of
their application, they should be applied upon the
throat from ear to ear, upon the breast, and in some
cases to the extremities, in urgent cases warm sta-
-mulating cataplectans may frequently be advantage-
-ously applied in their stead, I have had opportuni-
-ties of witnessing the happiest results from their
use. Should they prove beneficial in no other respect
they will by irritating the skin & thereby rendering it
^{to the impulsion} more susceptible of an expectorant. They should be com-



12

pond of horseradish, mustard seed, bran & vinegar
made into the consistency and form of a pancake
and applied to the Head as warm as the patient can
bear it. In the mean time the bowels should be eva-
cuated by some active cathartie. Rhubarb & bellomel
is perhaps the best, and bellomel purée should be
administered in large and repeated doses. Dr. Rush
believes bellomel in this disease to be possessed of
some specific power independently of the evacuation
it occasions & Dr. Hamilton of Edinburgh relies almost
solely upon it in the cure of the disease, he has given
children at the age of two years from two to three
drachms in the course of four and twenty hours
& Dr. Phillips in one instance gave a child of three months
old half a drachm in one day. It has rarely been
known to cause phthisis in children, whose ages
render them subjects of it when given in these
large quantities, probably (as Dr. Rush remarks)
from the circumstances of its passing quickly through
the intestines. Dr. Hamilton's mode of employing it
is to give a dose of from one to five grains accord-
ing to the age of the child, every two hours till the
breathing is evidently relieved, when it is gradu-
ally to be discontinued.

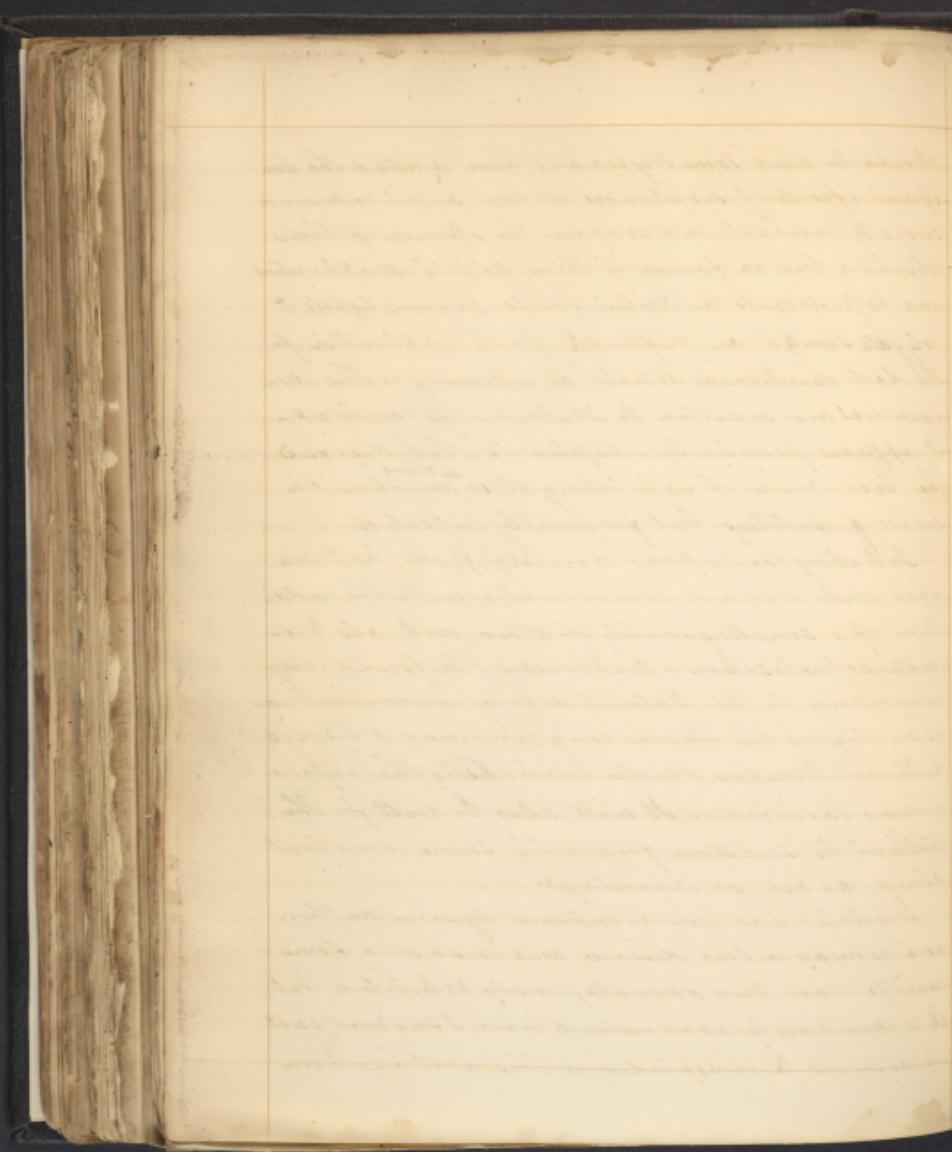
To determine to the surface of the body & to pro-
mote expectoration, deaphonites and expectorants



should be used. Some physicians have doubted the beneficial effects of diaphatics in Croup, but experience seems to warrant and confirm the opinion of those who have been in favour of them, as both diaphoretics and expectorants like antimonials, Sennet, Eggers, & polygala Seneca are preferable, for the application of the last mentioned article as a remedy in this disease we are indebted to Dr. Archer of Mayland - it appears peculiarly adapted to this disease. The best mode of exhibiting it, is, ^{in thins} decoction in small quantities but frequently repeated.

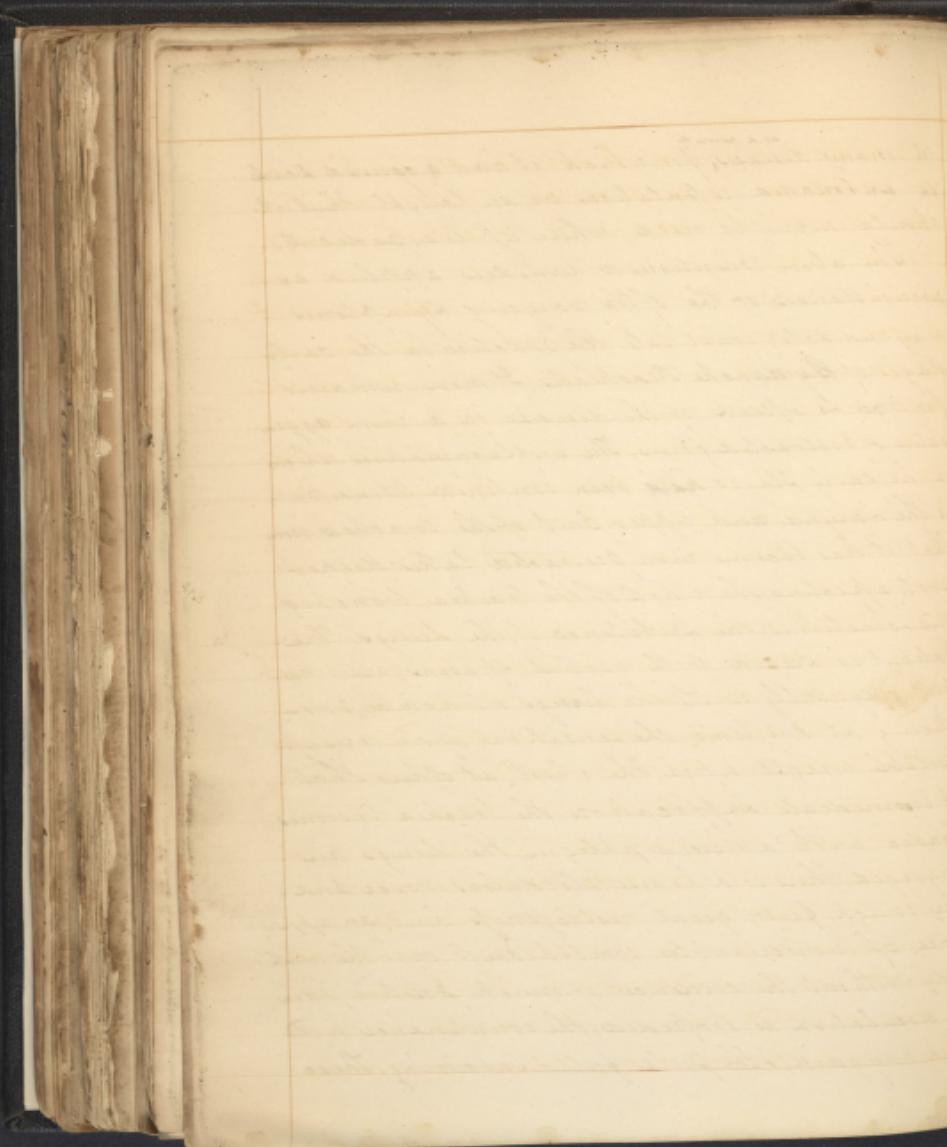
Inhaling the vapour arising from hot vinegar and water, or warm water with the addition of a small quantity of ether will also promote expectoration & diaphoresis, & be found very comforting to the patient. A very convenient way of employing the steam is by imbuing a sponge with hot Vinegar & water & inhaling the vapour arising therefrom. It will also be well for the patient to Swallow frequently some emollient fluid as oil or Mustard.

Digitalis has been mentioned by some authors as a remedy in this disease, and is said in some cases to have been advantageously exhibited, but it is now rarely administered, and I suspect justly deserves to be exploded in this, as it has been

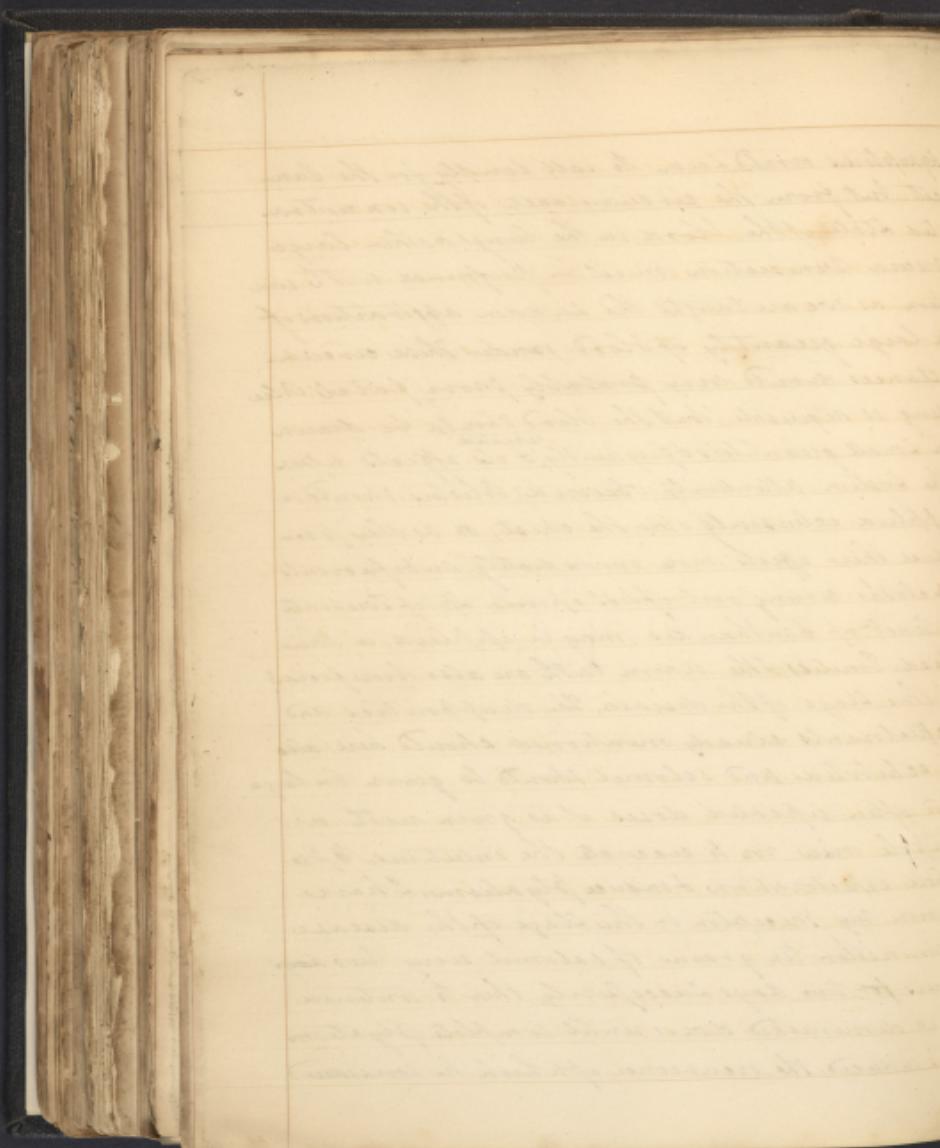


in many diseases, for which it had acquired such an unbounded reputation, we are taught that it should never be used where it is expedient.

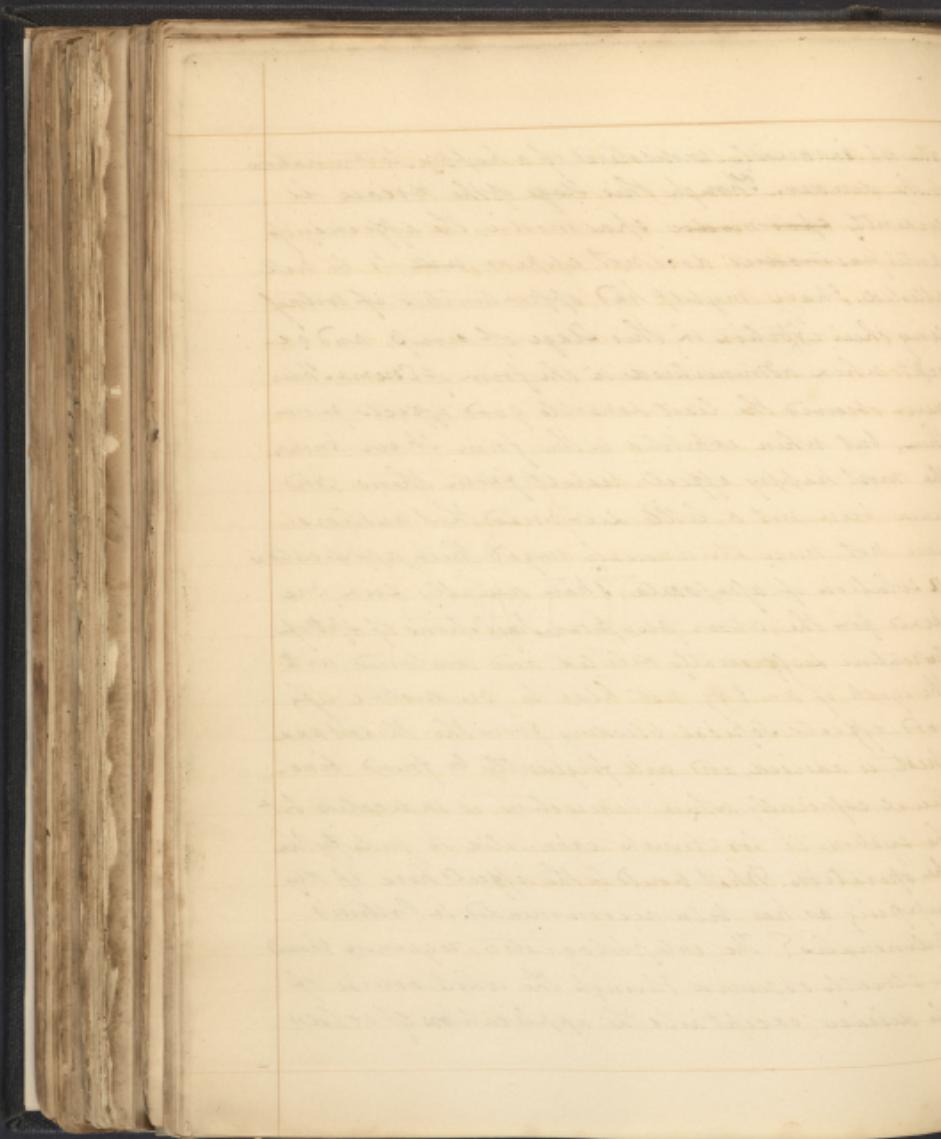
The above mentioned remedies applied as circumstances, or the often varying symptoms may indicate, constitute the practice in the early stages of Cystanche Trachialis. It now remains for me to speak of the disease in a more aggravated & protracted form. The inflammation which in the early stages had been confined principally to the larynx and upper part of the trachea now that it has become more protracted takes deeper root, affecting the whole of the trachea, bronchi & sometimes the substance of the lungs. The patient is seized with violent spasms, alternating frequently with the lungs & trachea, producing at one time the sensation of an insupportable weight upon the chest, at others that of immediate suffocation, the trachea becomes loaded with a viscid phlegm, the lungs are engorged, there is a hoarse stertorous voice and dry cough, fever, great restlessness and an appearance of indescribable wretchedness over the whole body without the evidence of much positive pain the circulation is impeded, the countenance wild and haggard, the pulse full & labouring. These



Symptoms would seem to call loudly for the lancet, but from the circumstances of the concentrated state of the blood in the lungs & other large viscera venesection must be performed with caution, as we are taught the sudden abstraction of a large quantity of blood under these circumstances would very probably prove fatal. Bleeding is requisite, but the blood should be drawn in small quantities & frequently, & its effects upon the system attentively observed. Blisters should be applied extensively over the chest, or as they produce their effects more immediately, subfascient or cloths wrung out of hot spirits, Sp' of Toulent or Spirit of Earthaukes may be applied instead. Emetics & the warm bath are also beneficial in this stage of the disease. The diaphoretics and expectorants already mentioned should here also be exhibited and calomel should be given in large and often repeated doses, it is given with a tripple view viz to evacuate the intestines, to promote expectoration & induce phlegm. I have known my preceptor in this stage of the disease administer ten grains of calomel every two days hours for two days successively, then to continue it in diminished doses until complete phlegm was induced, the occurrence of which he considered



almost invariable indication of a happy termination
of the disease. Though this stage of the disease is
markedly spasmodic spasmodic, the efficacy of
anti-spasmodics does not appear well to be well
attested. I have myself had opportunities of witness-
ing their ^{exhibition} in this stage of convulsions, and ex-
cept when administered in the form of Enema I have
never observed the least sensible good effects from
them, but when exhibited in this form I have known
the most happy effects result from them, and
have been not a little surprised that authors
have not more strenuously urged their application
A solution of Asparagata I have usually seen pre-
pared for the above purpose. Injections of spts of
Gentianine sufficiently diluted and combined with
the yolk of an egg will attest by conductor of
good effects. Topical bleeding from the thorax
chest is advised, and will frequently be found bene-
ficial, especially where Venesection is indicated but
the system is too much exhausted to justify the
operations. What would be the effects here of my
cupping as has been recommended in Pittheus's
Nitronalis? The entiphlogistic regimen should
be strictly observed through the whole course of
the disease (except with the application of colds)



The patient should be kept warm, and it will
be prudent in cases of infants to keep them in
an elevated position to guard against suffocation.

When the symptoms continue notwithstanding
the application of the above mentioned re-
medies, Tracheotomy has been recommended as
a dernier resort. Michaelis warmly advocates it
he recommends it in all cases when the sym-
ptoms do not readily yield to other remedies. But
the propriety and usefulness of the operation
is questioned by others, they say although the
upper part of the hardened membranous sub-
stance might be extracted, still it would be
impossible to remove the fluid portion which
fills the lower part of the trachea and which
is one of the chief obstacles to respiration. The
operation has never to my knowledge been per-
formed in the United States, and I believe when
the remedies mentioned are judiciously and
energetically applied, the formation of the mem-
brane is a rare occurrence -

